Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

1. – 17. (Canceled)

18. (Currently Amended) A method of detecting the presence of a pathogen in a sample or disease of an organism in a sample from said diseased organism, said method comprising:

a) contacting a polypeptide with said sample, wherein said polypeptide comprises an ~~engineered~~ evolved PDZ domain having at least ~~50% homology~~ 95% identity with SEQ ID NO: 2, wherein said ~~engineered~~ evolved PDZ domain binds to a target associated with said pathogen or disease ~~state in said sample~~; and

b) detecting binding of said polypeptide to said target associated with said pathogen or disease in said sample ~~to said sample~~.

19. – 23. (Canceled)

24. (Previously presented) The method of claim 18 wherein said pathogen is *Bacillus anthracis* or *Clostridium botulinum*.

25. (Previously presented) The method of claim 18 wherein said target is protein BclA of *Bacillus anthracis* or a fragment thereof.

26. (Previously presented) The method of claim 18 wherein said target is a polypeptide having a C-terminal sequence of EFYA.

27. (Canceled)

28. (Previously presented) The method of claim 18 wherein said polypeptide binds to said target with a dissociation constant (K_d) of about 100 nM or lower.

29. (Previously presented) The method of claim 18 wherein said polypeptide binds to said target with a dissociation constant of about 15 nM or lower.

30. (Previously presented) The method of claim 18 wherein said polypeptide further comprises a reporter group.